No. 200200059

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

DLF International Seeds & Rutgers,
The State University of New Jersey

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE , OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DERIVATIVE VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

RYEGRASS, PERENNIAL

'Kokomo'

In Testimony Whereof, *I have hereunto set my hand and caused the seal of the* Plant Variety Protection Office *to be affixed at the City of Washington, D.C. this twenty-second day of November, in the year two thousand and four.*

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

REPRODUCE LOCALLY. *Include form number and date on all reproductions.* FORM APPROVED - OMB NO. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) *(as it is to appear on the Certificate)*

Jas 9/27/04 DLF International Seeds and ~~Cebeco International Seeds, Inc.~~ Rutgers, The State University of New Jersey

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER: CIS-PR 69

3. VARIETY NAME: Kokomo

4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)*

PO Box 229
Halsey, OR 97348
USA

5. TELEPHONE *(include area code)*: 541-369-2251

6. FAX *(include area code)*: 541-369-2640

FOR OFFICIAL USE ONLY

PVPO NUMBER: 200200059

FILING DATE: January 8, 2002

7. GENUS AND SPECIES NAME: Lolium perenne

8. FAMILY NAME *(Botanical)*: Graminae

9. CROP KIND NAME *(Common name)*: Perennial Ryegrass

10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION *(corporation, partnership, association, etc.) (Common name)*: Corporation

11. IF INCORPORATED, GIVE STATE OF INCORPORATION: Oregon

12. DATE OF INCORPORATION: 1972

FEES RECEIVED

FILING AND EXAMINATION FEE: $ 2705~

DATE: 1/8/2002

CERTIFICATION FEE: $ 432~

DATE: September 27, 2004

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS

Stephen W. Johnson
Cebeco International Seeds, Inc.
PO Box 229
Halsey, OR 97348

14. TELEPHONE *(include area code)*: 541-369-2251

15. FAX *(include area code)*: 541-369-2640

16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED *(Follow instructions on reverse)*

a. [X] Exhibit A. Origin and Breeding History of the Variety
b. [X] Exhibit B. Statement of Distinctness
c. [X] Exhibit C. Objective Description of the Variety
d. [X] Exhibit D. Additional Description of the Variety *(Optional)*
e. [X] Exhibit E. Statement of the Basis of the Applicant's Ownership
f. [X] Voucher Sample *(2,500 viable untreated seeds or, for tuber propagated varieties verification that tissue culture will be deposited and maintained in an approved public repository)*
g. [X] Filing and Examination Fee ($~~2,450~~ 2705), made payable to "Treasurer of the United States" *(Mail to PVPO)*

17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY, AS A CLASS OF CERTIFIED SEED? *(See Section 83(a) of the Plant Variety Protection Act)*

[ ] YES *(If "yes," answer items 18 and 19 below)* [X] NO *(If "no," go to item 20)*

18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?

[ ] YES [ ] NO

19. IF "YES" TO ITEM 18, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?

[ ] FOUNDATION [ ] REGISTERED [ ] CERTIFIED

20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?

[ ] YES *(If "yes," give names of countries and dates)* [X] NO

21. The applicant(s) declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

The undersigned applicant(s) is(are) the owner(s) of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT *(Owner(s))*		SIGNATURE OF APPLICANT *(Owner(s))*	
Stephen W Johnson			
NAME *(Please print or type)* Stephen W. Johnson		NAME *(Please print or type)*	
CAPACITY OR TITLE: Director of Research	DATE: 12-20-01	CAPACITY OR TITLE	DATE

Exhibit A

ORIGIN AND BREEDING HISTORY OF KOKOMO (CIS-PR 69) PERENNIAL RYEGRASS

Kokomo perennial ryegrass (*Lolium perenne* L.) is a turf-type cultivar selected from the maternal progenies of 26 clones. Over 80 percent of the parental germplasm used in the development of Kokomo originated from plants selected from old turfs of the Mid-Atlantic region of the United States. Additional germplasm traces to plants selected from or related to Manhattan II, Citation II All*Star, Jazz, Loretta and PI 231,597 from Greece. Most of the parental germplasm of Manhattan II, Citation II, All*Star and Jazz also traces to collections from old turfs in the United States.

The majority of the parental germplasm of Kokomo originated from a program to improve perennial ryegrass for turf use initiated by the New Jersey Agricultural Experiment Station. Starting in 1962 a search was made to locate elite perennial ryegrass plants thriving in old turfs throughout much of the United States. The most promising plants were found in warm, humid parts of New York City, New Jersey, Pennsylvania and Maryland. The size, location and appearance of these plants indicated that they originated from seedings made prior to1940. Clonal evaluation and progeny tests conducted under turf maintenance showed that they had dramatically improved turf performance compared to any other perennial ryegrass available at the time, a darker green color, a lower growth profile and improved resistance to many of the diseases, insects and environmental stresses common to the Mid-Atlantic region of the United States.

An examination of thousands of old lawns, parks, sports fields, cemeteries and golf courses starting in 1962 showed that of the billions of ryegrass seeds used to establish these turfs only a few produced plants able to persist and grow to produce attractive individual plants that were at least three feet in diameter. The most attractive plants were found east of the sheep meadow in Central Park in New York City, in southeast Pennsylvania (the parents of Pennfine and Birdie perennial ryegrasses); in Paterson Park, Riverside Park and a school playground in Baltimore, Maryland; the campus lawn of the University of Maryland, College Park, Maryland; Warinaco Park, Elizabeth, New Jersey; and the Colonia and Atlantic City golf courses near Colonia New Jersey and Atlantic City New Jersey.

Tillers obtained from these selected plants were subsequently evaluated in frequently mowed turf trials. Plants obtained from crosses of the best performing clones were subsequently selected to initiate a long-term germplasm enhancement program using many cycles of phenotypic and genotypic recurrent selection. Phenotypic selection involved (1) selection of darker green, more compact, disease-free, highly tillering seedlings during winter greenhouse tests; (2) inoculation and selecting for resistance to crown rust; (3) selection of attractive, leafy lower-growing, dark-green plants showing higher seed yielding potential in spaced-plant nurseries; (4) selecting attractive plants surviving in closely mowed turf trials subjected to stresses of heat, drought, disease, insects and winter cold. Genotypic selection included extensive evaluation of single-plant progenies in closely mowed turf trials and spaced-plant nurseries. Additional germplasm was added to

the program as opportunities developed. Separated breeding composites were developed to help maintain genetic diversity and reduce inbreeding.

Following varying cycles of phenotypic and genotypic recurrent selection a several plants were crossed at Adelphia, New Jersey in 1997. Each plant crossed was harvested individually. A portion of the seed from 35 of the plants was used to establish progeny turf plots at Adelphia in the fall of 1997. This group of progenies was designated SJSPR and the individual progenies were numbered 1-35. Residual seed from the 35 SJSPR progenies was sent to Cebeco International Seeds, Inc.'s research station near Tangent, Oregon where in the fall of 1997 it was used to establish a spaced-plant nursery consisting of three replications of 30 plants from each familiy.

During 1998 and 1999 the Oregon nursery was observed and plants with low vigor, lighter green color, or susceptibility to leaf spot were rouged out. Prior to anthesis in 1999 all of the plants in families SJSPR -1, -8, -17, -20, -25, -27, -29, -31, -33, -35 were mowed down due to poor performance in the Adelphia progeny turf trials. In the remaining 26 families approximately 60 % of the original plants were removed before anthesis. The remaining plants were allowed to inter-pollinate. Seed harvested from these plants was bulked and constitutes the stock seed for the variety Kokomo (experimental CIS-PR 69). A portion of this seed is maintained by Cebeco International Seeds and may be used to plant new breeder seed fields when necessary.

The variety Kokomo has appeared uniform and stable during multiplication from breeder to foundation generations. Kokomo has a small percentage (<0.5%) of plants that are somewhat taller and coarser than the rest of the population. The percentage of these plants appears to be stable when seed is multiplied from breeder to foundation generation.

Exhibit B

Novelty Statement

Kokomo perennial ryegrass (*Lolium perenne* L.) is a medium late variety developed for use in turf..

Kokomo is most similar to Brightstar II. Differences between Kokomo and Brightstar II include, but are not necessarily limited to the following:

1. Kokomo has significantly greater resistance to leaf spot than Brightstar II when the cultivars are grown as turf in western Oregon. (7.4 vs. 5.3 on 9=no disease scale).

2. Kokomo has a lower average weight for 10 spikes (2783 mg vs. 3032 mg).

FORM APPROVED: OMB NO. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN AND SEED DIVISION
BELTSVILLE, MARYLAND 20705

EXHIBIT C
(Ryegrass)

OBJECTIVE DESCRIPTION OF CULTIVARS
RYEGRASS
(Lolium spp.)

Jas 9/27/04

NAME OF APPLICANT(S)
DLF International Seeds and Rutgers, The State University of New Jersey
~~Cebeco International Seeds, Inc.~~

VARIETY NAME OR TEMPORARY DESIGNATION
Kokomo

ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP Code)*
PO Box 229
Halsey, OR 97348

FOR OFFICIAL USE ONLY
PVPO NUMBER
200200059

Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in first box (e.g. [0][8][9] or [0][9]) when number if either 99 or less or 9 or less. Descriptions of characters should represent those that are typical for the variety. Ranges may be given also. Measured data should be for SPACED PLANTS. Give additional description for all characteristics that cannot be adequately described in the form below. Append all pertinent comparative trial and evaluation data. The symbol "▲" indicates decimal.

1. SPECIES:

[2] 1 = L. MULTIFLORUM (annual or Italian: includes Westerwoldicum) 2 = L. PERENNE (perennial) 3 = L. RIGIDUM (includes Wimmera)
4 = HYBRID (of species) _____ 5 = OTHER *(Specify)* _____

2. PLOIDY:

[1] 1 = DIPLOID 2 = TETRAPLOID 3 = OTHER *(Specify)* _____

3. DURATION:

[3] 1 = ANNUAL OR BIENNIAL 2 = SHORT LIVED PERENNIAL (3-4 years) 3 = PERENNIAL (more than 4 years)

STANDARD CULTIVARS

1 = GULF 2 = WIMMERA 62 3 = LINN 4 = PELO
5 = NORLEA 6 = ABERYSTWYTH S-23 7 = MANHATTAN 8 = PENNFINE

4. MATURITY (50% HEADED) Use standards from above for comparison:

[6] 1 = VERY EARLY 3 = EARLY 5 = MEDIUM 7 = LATE 9 = VERY LATE

[0][6] DAYS EARLIER THAN . . . . . [7] STANDARD CULTIVAR
[0][4] DAYS LATER THAN . Pinnacle . . . . . [ ] STANDARD CULTIVAR

5. MATURE PLANT HEIGHT (Use standard cultivars from above) :

[5][0▲][0] CM. HIGH
[ ][7▲][6] CM. SHORTER THAN . . . . . [7] STANDARD CULTIVAR
[ ][9▲][1] CM. TALLER THAN . Elka . . . . . [ ] STANDARD CULTIVAR

6. PERCENT WINTER DAMAGE (estimated as percent of the area appearing dead). Use standard cultivars from above for comparison:

[ ][ ][0] PERCENT DAMAGE OF APPLICATION CULTIVAR (No winter damage observed in trial grown in western Oregon)
[ ][ ][ ] PERCENT DAMAGE OF . . . . . [ ] STANDARD CULTIVAR

7. TURF DENSITY Use standard cultivars from above:

[3][6][4] TILLERS PER 100 SQ. CM.
[ ][ ][ ] LESS TILLERS PER 100 SQ. CM. THAN . . . . [ ] STANDARD CULTIVAR
[ ][2][4] MORE TILLERS PER 100 SQ. CM. THAN . . . [ ] STANDARD CULTIVAR Brightstar II

8. FLAG LEAF (at full growth) Use standard cultivars from above:

[1][2▲][6] CM. LENGTH (from ligule to tip)
[ ][3▲][3] MM. WIDTH (at widest point)
[ ][3▲][9] CM. SHORTER THAN Derby Supreme . . [ ] STANDARD CULTIVAR
[ ][0▲][7] CM. LONGER THAN . Elka . . . . . [ ] STANDARD CULTIVAR
[ ][0▲][5] MM. NARROWER THAN Derby Supreme . [ ] STANDARD CULTIVAR
[ ][ ][ ] MM. WIDER THAN . . . . . [ ] STANDARD CULTIVAR

[7] FLAG LEAF AT BOOT STAGE: 1 = DEFLEXED 3 = RECURVED 5 = HORIZONTAL 7 = SEMI-ERECT 9 = ERECT

200200659

STANDARD CULTIVARS

1 = GULF	2 = WIMMERA 62	3 = LINN	4 = PELO
5 = NORLEA	6 = ABERYSTWYTH S-23	7 = MANHATTAN	8 = PENNFINE

9. LEAVES:

[3] VERNATION: 1 = LEAVES ROLLED IN YOUNG SHOOTS
2 = LEAVES SEMI-ROLLED (folded with rolled edges)
3 = LEAVES FOLDED IN YOUNG SHOOTS

[ ][9][0] % PLANTS WITH ANTHOCYANIN IN LOWER LEAF SHEATH

[3] FOLIAGE COLOR: 1 = YELLOW GREEN, 2 = MEDIUM GREEN, 3 = BLUE GREEN

10. SPIKE:

[1][5][.2] MM. SPIKE LENGTH (tip to internode below lowest floret)

[2][7] MM. SHORTER THAN ..... [7]

[ ][ ] MM. LONGER THAN ..... [ ]

} USE STANDARD CULTIVARS FROM ABOVE

[2][6][5][3] MG. PER TEN SPIKES (trimmed to internode below lowest floret)

[ ][3][7][9] MG. LIGHTER PER TEN SPIKES THAN ..... [ ]

[1][9][5] MG. HEAVIER PER TEN SPIKES THAN ..... [ ]

} USE STANDARD CULTIVARS FROM ABOVE

Brightstar II

Elka

[1][2] FLORETS PER SPIKELET

PERCENTAGE OF PLANTS WITH:

RACHIS: [1][0][0] % SMOOTH [ ][ ][ ] % ROUGH

SPIKE COLOR: [ ][5][8] % GREEN [ ][4][2] % PURPLE

LEMMA: [ ][ ][0] % AWNED [ ][ ][ ] MM. AWN LENGTH

[7][8] MM. GLUME LENGTH

[2] 1 = SPIKELET LENGTH NEARLY EQUAL TO OUTER GLUMES
2 = SPIKELET LENGTH MUCH LONGER THAN OUTER GLUMES

11. COLEOPTILE:

[ ][4][0] % PLANTS WITH ANTHOCYANIN IN COLEOPTILE

12. ANTHER COLOR:

[ ][7][9] % PLANTS WITH WHITE ANTHERS

[ ][1][6] % PLANTS WITH YELLOW ANTHERS

[ ][ ][5] % PLANTS WITH PURPLE ANTHERS

13. ROOT AND PLANT CHARACTERS:

[ ][5][5] % PLANTS WITH PROSTRATE GROWTH HABIT

[0][2][6] % PLANTS WITH FLUROESCENT ROOTS

[ ][4][5] % PLANTS WITH UPRIGHT GROWTH HABIT

14. SEED:

[1][9][3][5] MG. PER 1,000 SEED

[5][4][6] MM. TOTAL LENGTH OF 10 SEEDS

[1][4][2] MM. TOTAL WIDTH OF TEN SEEDS

16. DISEASE (0 = NOT TESTED, 2 = HIGHLY SUSCEPTIBLE, 4 = MODERATELY SUSCEPTIBLE, 6 = MODERATELY RESISTANT, 8 = HIGHLY RESISTANT):

7	CROWN RUST (Puccinia coronata)	7	DOLLAR SPOT (Sclerotinia)	0	BROWN PATCH (Rhizoctonia)
7	LEAF SPOT (Helminthosporium)	0	MILDEW		OTHER *(Specify)*
8	SNOW MOLD (Typhula)	5	RED THREAD (Corticium)		

16. INSECT (0 = NOT TESTED, 2 = HIGHLY SUSCEPTIBLE, 4 = MODERATELY SUSCEPTIBLE, 6 = MODERATELY RESISTANT, 8 = HIGHLY RESISTANT):

0 *(Specify)* _____

17. GIVE RESEMBLANCE VALUE IN LEFT COLUMN AND VARIETY CODE NUMBER IN RIGHT COLUMN FOR VARIETY WITH WHICH COMPARISON IS MADE (1 = LESS THAN, 2 = SAME AS, 3 = MORE ERECT, MORE RESISTANT, DENSER, MORE PERSISTENT, DARKER OR GREATER HEIGHT.):

RESEMBLANCE	CHARACTER	SIMILAR VARIETY
9	PLANT HABIT (erectness)	1 = GULF
9	TILLERING	2 = WIMMERA 62
9	WINTER HARDINESS	3 = LINN
9	HIGH TEMP. STRESS RESISTANCE	4 = PELO
9	TURF PERSISTENCE	5 = NORLEA
9	PLANT COLOR	6 = ABERYSTWYTH S-23
9	VERTICAL SEEDLING GROWTH RATE	7 = MANHATTAN
9	CROWN DENSITY	8 = PENNFINE
9	MOWER SHREDDING RESISTANCE	9 = Brightstar II

18. GIVE AREA OF ADAPTATION AND INTENDED USE: Kokomo's area of adaptation includes western OR; Turf

19. GIVE AREA TEST RESULTS PRESENTED FROM: Tangent, Oregon - Concord silty loam

COMMENTS:

EXHIBIT D

Table1.

Heading dates of perennial ryegrass varieties grown near Tangent, Oregon in 2000 and 2001.

NAME	2000 Heading Date	2001 Heading Date	00-01 Heading Date Average
Linn	May 2	May 8	May 5
Manhattan II	May 15	May 19	May 17
Derby Supreme	May 16	May 18	May 17
Pinnacle	May 16	May 19	May 18
CIS-PR 72	May 17	May 21	May 19
Essence	May 18	May 24	May 21
Kokomo	**May 20**	**May 23**	**May 22**
Brightstar II	May 20	May 24	May 22
All*Star2	May 21	May 25	May 23
Gator3	May 21	May 25	May 23
Cabo	May 22	May 26	May 24
CIS-PR 84	May 22	May 26	May 24
CIS-PR 75	May 22	May 27	May 25
Manhattan	May 27	May 29	May 28
Elka	June 5	June 6	June 6

EXHIBIT D

Table 2.

Morphology of perennial ryegrass varieties grown near Tangent, Oregon in 2000 and 2001. Trial consisted of three replications with 20 plants per replication. LSD determined from two-way analysis of variance.

NAME	2000 Plant Height (cm)	2001 Plant Height (cm)	00-01 Avg. Plant Height (cm)	2000 Spike Length (cm)	2001 Spike Length (cm)	00-01 Avg. Spike Length (cm)	2000 First Internode Length (cm)	2001 First Internode Length (cm)	00-01 Avg. First Internode Length (cm)	2000 Flag Leaf Length (cm)	2001 Flag Leaf Length (cm)	00-01 Avg. Flag Leaf Length (cm)	2000 Flag Leaf Width (mm)	2001 Flag Leaf Width (mm)	00-01 Avg. Flag Leaf Width (mm)
Linn	83.2	70.2	76.7	22.4	17.9	20.1	26.5	17.9	22.2	15.7	14.2	14.9	3.6	3.5	3.5
Derby Supreme	79.3	66.4	72.8	24.0	17.8	20.9	25.0	17.7	21.4	17.2	14.5	15.9	3.4	4.1	3.8
Manhattan II	71.2	61.4	66.3	22.3	16.6	19.4	23.4	15.6	19.5	15.1	11.5	13.3	3.3	3.8	3.6
Pinnacle	64.1	53.4	58.8	19.2	14.7	16.9	23.2	14.1	18.7	14.1	11.9	13.0	3.2	3.4	3.3
Essence	63.3	48.9	56.1	19.4	15.7	17.5	22.1	14.2	18.1	14.6	12.0	13.3	2.9	4.1	3.5
Manhattan	62.8	52.3	57.6	20.3	15.6	17.9	18.3	12.4	15.4	15.6	10.9	13.2	3.5	4.0	3.8
Brightstar II	59.2	47.9	53.5	16.1	15.4	15.8	17.4	11.5	14.4	11.0	12.3	11.7	2.7	3.8	3.3
All*Star II	57.3	43.0	50.2	16.2	14.7	15.5	16.6	14.9	15.8	14.1	11.5	12.8	2.7	3.8	3.2
CIS-PR 84	57.3	45.2	51.3	17.0	14.3	15.7	18.3	14.1	16.2	13.8	12.8	13.3	3.0	3.8	3.4
Gator 3	56.7	44.7	50.7	17.1	14.8	16.0	16.5	16.8	16.6	13.6	11.5	12.5	3.1	4.3	3.7
CIS-PR 75	56.3	44.2	50.3	17.9	13.5	15.7	19.0	14.6	16.8	12.9	9.7	11.3	3.0	3.8	3.4
CIS-PR 72	56.2	45.8	51.0	16.3	13.6	15.0	19.0	16.1	17.6	13.2	10.9	12.0	2.7	3.7	3.2
Cabo	55.9	44.6	50.2	16.9	13.8	15.3	18.3	17.5	17.9	12.5	12.0	12.2	3.2	3.9	3.5
Kokomo	**55.5**	**44.5**	**50.0**	**17.2**	**13.3**	**15.2**	**16.3**	**10.1**	**13.2**	**14.7**	**10.6**	**12.6**	**2.9**	**3.6**	**3.3**
Elka	42.7	39.0	40.9	16.5	14.6	15.6	12.0	11.4	11.7	12.6	11.2	11.9	2.9	4.4	3.6
LSD @ 0.05	**6.1**	**3.2**		**2.3**	**1.9**		**3.7**	**3.7**		**2.9**	**2.6**		**0.5**	**0.9**	

EXHIBIT D

Table 3.

Tillers per 100 square centimeters of
Perennial ryegrass varieties grown
under turf culture near Tangent, Oregon

NAME	1999 Trial Tillers per 100 sq cm	2000 Trial Tillers per 100 sq cm	Average Tillers per 100 sq cm
Cabo	417	374	396
All*Star II	397	354	376
CIS-PR 84	382	350	366
Gator3	377	362	369
CIS-PR 75	370	364	367
Top Hat	364	358	361
CIS-PR 72	363	347	355
Kokomo	**359**	**369**	**364**
Brightstar II	358	323	340
Essence	352	311	332
Derby Supreme	294	265	279
LSD @ 0.05	**68**	**58**	

Table 4.

Ratings of perennial ryegrass varieties grown under turf culture near Tangent, Oregon. Three replication trial established September 1999. LSD determined by two-way analysis of variance.

NAME	2000 Color 1-9 9=dark green	2001 Color 1-9 9=dark green	00-01 average Color 1-9 9=dark green	2000 Leaf Spot 1-9 9=no disease	2001 Leaf Spot 1-9 9=no disease	00-01 average Leaf Spot 1-9 9=no disease
All*Star2	7.5	7.8	7.7	7.7	6.5	7.1
CIS-PR 84	7.7	7.5	7.6	7.0	7.0	7.0
CIS-PR 72	6.8	7.3	7.1	7.7	6.5	7.1
Cabo	8.0	7.7	7.8	6.3	5.8	6.1
Pizzazz	7.7	6.8	7.3	7.3	6.7	7.0
Gator 3	7.0	6.8	6.9	7.8	6.5	7.2
Kokomo	**6.8**	**6.7**	**6.8**	**7.7**	**7.0**	**7.3**
R 8000	7.0	6.8	6.9	7.2	5.7	6.4
CIS-PR 75	8.0	6.8	7.4	6.8	5.5	6.2
PST-2BR	6.7	6.5	6.6	7.7	6.0	6.8
PST-2L96	7.2	7.0	7.1	7.3	5.2	6.3
PST-2A6B	6.8	6.5	6.7	5.7	5.3	5.5
CIS-PR 83	6.8	6.5	6.7	4.7	6.0	5.3
Brightstar II	7.0	6.7	6.8	5.8	4.7	5.3
PST-CRL	6.5	6.7	6.6	5.8	5.5	5.7
CIS-PR 82	6.3	7.2	6.8	5.8	5.7	5.8
MP 107	7.5	6.7	7.1	4.7	4.0	4.3
PST-2SLX	7.2	6.3	6.8	5.5	4.5	5.0
Paragon	5.7	5.8	5.8	6.3	5.2	5.8
Promise	6.7	6.5	6.6	6.0	5.0	5.5
MP 103	7.5	6.5	7.0	5.5	3.5	4.5
CIS-PR 77	7.0	6.8	6.9	4.5	4.8	4.7
CIS-PR 81	5.7	6.3	6.0	3.7	4.3	4.0
Palmer III	5.2	5.8	5.5	4.5	4.8	4.7
Ascend	6.3	6.0	6.2	5.2	4.7	4.9
Majesty	6.0	5.8	5.9	4.5	4.7	4.6
PST-2CRR	5.8	5.8	5.8	4.7	4.0	4.3
PST-2SBE	6.3	6.0	6.2	3.3	3.8	3.6
CIS-PR 91	6.0	6.2	6.1	4.7	4.7	4.7
CIS-PR 70	6.3	6.0	6.2	4.3	4.8	4.6
CIS-PR 74	5.2	5.2	5.2	3.8	4.5	4.2
PST-CATS	6.0	6.0	6.0	4.0	4.2	4.1
CIS-PR 76	6.2	6.0	6.1	5.3	4.5	4.9
PST-2LA	5.8	6.2	6.0	4.3	4.0	4.2
Divine	5.2	5.2	5.2	5.0	3.7	4.3
PST-2RT	5.7	5.7	5.7	4.7	4.0	4.3
CIS-PR 119	5.5	5.5	5.5	4.3	4.5	4.4
PST-2M4	5.7	5.8	5.8	5.5	4.5	5.0
Catalina	5.2	5.8	5.5	4.5	3.7	4.1
Top Hat	4.3	5.2	4.8	4.8	4.7	4.8
Platinum	4.8	5.0	4.9	4.0	4.7	4.3
Charger II	4.3	5.3	4.8	4.2	3.8	4.0
PST-2JH	5.7	5.2	5.4	4.2	3.5	3.8
Manhattan 3	5.7	5.8	5.8	4.2	3.8	4.0
Premier	4.5	4.7	4.6	2.8	4.3	3.6
Evita	2.3	3.8	3.1	4.8	5.5	5.2
Essence	4.3	4.5	4.4	3.3	3.5	3.4
Boulevard	4.2	4.5	4.3	2.7	4.3	3.5
Road Runner	4.5	4.8	4.7	4.3	4.0	4.2
Rhapsodie	2.7	3.3	3.0	5.2	5.0	5.1
Affinity	3.8	4.3	4.1	4.3	3.8	4.1
R2	3.0	4.0	3.5	2.7	3.8	3.3
Renoir	3.0	3.2	3.1	2.7	4.3	3.5
Avenue	3.7	3.7	3.7	1.8	3.0	2.4
Elka	3.2	3.2	3.2	1.5	4.5	3.0
Gator II	3.5	4.5	4.0	3.7	4.3	4.0
Dali	3.3	3.2	3.3	2.2	4.0	3.1
Chagall	2.8	3.2	3.0	2.7	4.0	3.3
Buccaneer	3.7	4.2	3.9	4.2	3.7	3.9
Milton	3.0	3.5	3.3	2.7	4.3	3.5
YatsuGreen	2.8	3.5	3.2	3.2	3.2	3.2
Derby Supreme	3.2	3.2	3.2	2.8	3.7	3.3
Linn	1.5	1.3	1.4	1.7	2.5	2.1
LSD @ 0.05	**0.9**	**0.7**		**1.2**	**1.0**	

EXHIBIT D

Table 5.

Spike Characteristics of perennial ryegrass varieties grown near Tangent, Oregon in 2000 and 2001. Trial consisted of three replications with 20 plants per replication. LSD determined from two-way analysis of variance.

NAME	2000 Weight of 10 Spikes (mg)	2001 Weight of 10 Spikes (mg)	00-01 Weight of 10 Spikes (mg)	2000 Glume Length(mm)	2001 Glume Length(mm)	00-01 Glume Length(mm)	2000 Spikelet Length(mm)	2001 Spikelet Length(mm)	00-01 Spikelet Length(mm)	2000 No. of Florets	2001 No. of Florets	00-01 No. of Florets
Manhattan	3957	3167	3562	10.3	9.0	9.7	15.2	15.2	15.2	8.3	9.7	9.0
Linn	3730	2930	3330	14.0	11.7	12.8	19.5	16.6	18.1	9.7	9.7	9.7
Derby Supreme	3393	2853	3123	11.5	9.0	10.3	16.7	15.0	15.8	10.7	9.7	10.2
Brightstar II	3223	2840	3032	10.0	9.0	9.5	16.3	15.0	15.7	11.7	10.0	10.8
Manhattan II	3130	2693	2912	10.8	8.7	9.8	17.5	15.5	16.5	9.7	11.3	10.5
Essence	2870	2837	2853	10.3	8.5	9.4	12.7	13.0	12.8	9.7	10.3	10.0
Pinnacle	2843	2703	2773	9.7	7.7	8.7	17.0	15.0	16.0	11.7	11.0	11.3
Kokomo	**2783**	**2523**	**2653**	**8.0**	**7.7**	**7.8**	**15.7**	**14.9**	**15.3**	**11.7**	**12.0**	**11.8**
CIS-PR 72	2683	2410	2547	8.0	7.2	7.6	15.5	13.5	14.5	11.7	11.0	11.3
Cabo	2680	2707	2693	10.2	8.3	9.3	17.7	15.7	16.7	10.7	10.3	10.5
All*Star2	2600	2587	2593	9.2	7.7	8.4	14.0	14.2	14.1	12.0	10.3	11.2
CIS-PR 84	2493	2437	2465	7.0	7.5	7.2	12.8	10.5	11.7	10.7	9.3	10.0
Elka	2437	2480	2458	7.0	7.0	7.0	11.0	10.8	10.9	8.7	8.7	8.7
Gator3	2427	2380	2403	7.8	8.0	7.9	12.3	12.6	12.5	9.7	10.7	10.2
CIS-PR 75	2203	2230	2217	10.3	7.3	8.8	15.0	15.0	15.0	10.7	11.0	10.8
LSD @ 0.05	**325**	**314**		**2.6**	**1.8**		**1.9**	**1.9**		**2.2**	**1.5**	

EXHIBIT D

Table 6.

Seed Characteristics of perennial ryegrass varieties grown near Tangent, Oregon in 2000 and 2001. Trial consisted of three replic with 20 plants per replication. LSD determined from two-way analysis of variance.

NAME	2000 1000 Seed Weight (mg)	2001 1000 Seed Weight (mg)	00-01 1000 Seed Weight (mg)	2000 10 Seed Length (mm)	2001 10 Seed Length (mm)	00-01 10 Seed Length (mm)	2000 10 Seed Width (mm)	2001 10 Seed Width (mm)	00-01 10 Seed Width (mm)
Linn	3466.4	1971.9	2719.2	67.7	59.2	63.4	16.3	15.0	15.7
Derby Supreme	2427.8	1758.7	2093.3	53.0	43.5	48.3	13.3	14.3	13.8
Brightstar II	2376.7	1920.0	2148.3	54.3	44.8	49.6	14.0	13.8	13.9
Manhattan II	2281.1	1758.5	2019.8	63.3	54.1	58.7	13.3	13.5	13.4
Pinnacle	2213.2	1770.2	1991.7	59.3	55.7	57.5	13.3	14.5	13.9
Cabo	2154.2	1877.1	2015.6	54.0	44.9	49.5	13.3	13.8	13.6
Gator3	2142.0	1874.5	2008.2	55.0	46.5	50.7	14.0	14.5	14.2
Kokomo	**2116.3**	**1753.0**	**1934.6**	**56.0**	**53.3**	**54.6**	**13.3**	**15.1**	**14.2**
All*Star2	2030.6	1837.0	1933.8	49.7	47.0	48.3	13.0	13.1	13.1
Manhattan	1978.6	1451.6	1715.1	60.7	52.6	56.6	13.0	14.3	13.7
CIS-PR 75	1946.8	1803.2	1875.0	51.3	45.3	48.3	13.3	12.8	13.1
CIS-PR 72	1762.0	1444.9	1603.5	53.0	43.9	48.5	12.3	14.5	13.4
Essence	1669.4	1638.9	1654.1	47.0	42.3	44.6	11.3	11.0	11.2
Elka	1530.6	1383.5	1457.0	51.7	44.0	47.8	12.0	12.2	12.1
CIS-PR 84	1439.5	1541.5	1490.5	51.7	42.3	47.0	12.0	12.4	12.2
LSD @ 0.05	**243.7**	**164.2**		**2.8**	**4.7**		**0.8**	**1.2**	

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U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S)

~~Cebeco International Seeds, Inc.~~
DLF International Seeds and
Rutgers, The State University of New Jersey

Tab 9/27/04

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER: CIS-PR 69

3. VARIETY NAME: Kokomo

4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)*

PO Box 229/175 West 'H' Street
Halsey, OR 97348
USA

5. TELEPHONE *(include area code)*: 541-369-2251

6. FAX *(include area code)*: 541-369-2640

7. PVPO NUMBER: 200200059

8. Does the applicant own all rights to the variety? *Mark an "X" in appropriate block.* If no, please explain. [X] YES [ ] NO

9. Is the applicant (individual or company) a U.S. national or U.S. based company? If no, give name of country _____ [X] YES [ ] NO

10. Is the applicant the original breeder? If no, please answer the following: [X] YES [ ] NO

a. If original rights to variety were owned by individual(s):
Is (are) the original breeder(s) a U.S. national(s)? If no, give name of country _____

b. If original rights to variety were owned by a company:
Is the original breeder(s) U.S. based company? If no, give name of country _____ [ ] YES [ ] NO

11. Additional explantion on ownership *(If needed, use reverse for extra space):*

Kokomo was developed by Cebeco International Seeds, Inc. using germplasm obtained from the New Jersey Agricultural Experiment Station.

PLEASE NOTE:

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.

2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.

3. If the applicant is an owner who is not the original breeder, both the original breeder and the applicant must meet one of the above criteria.

The original breeder may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.